





Water sustainability in the Northwest

It is important that we manage water consumption to ensure that we have a

sustainable supply for future generations, while protecting the environment from over-abstraction.

There are significant and growing pressures on water resources

There has been a **30**% increase in England's population from 1961 to 2021

It is expected a further million people will live in the North West by 2050.

Individual water use in the home has increased by over **60**% since the 1960s ¹

By 2050; Summers will be **18%** drier and Winters will be **13%** wetter ²

Water without worry

Water Resources Management Plan

Our WRMP defines our strategy to achieve a long-term, best value and sustainable plan for water supplies. It ensures that we have an adequate supply to meet demand over the 25 years from 2020 to 2045, whilst ensuring that our supply system is resilient to drought.



The **Environment Agency**

supports the Per Capita Consumption and leakage targets set out in our draft WRMP and have asked that UU assess the feasibility of delivering further on these and / or faster.

National targets water companies are committing to

Through various mechanisms water companies are being asked to reduce water requirements

Our long-term company targets are in line with national policy:

Leakage target

50% (~224 Ml/d) reduction by 2050 (compared to 2017 levels ~449 Ml/d)

Per Capita Consumption target

110 litres/person/day by 2050

Non-Household Consumption target

15% reduction by 2050 9% reduction by 2038

Delivering a glide path to achieve these targets will likely get harder and more expensive. UU is also financially penalised for missing its targets.

Low Reservoirs in 2021

The UU network relies on reservoirs. These are filled through precipitation. Thus long term dry weather can lead to water shortages.



Being able to balance supply and demand over the next 25 years in a sustainable and economic way will be key to water resilience

Four streams of work totalling c920k smart meters in AMP8

Reactive - 28day SLA

Pro-active

Free Meter Option (FMO)



15k per year **76k** in AMP8

- This is customer driven demand predominantly driven by main billing.
- Internal and external fits
- Anywhere in our region
- Peak period Jan April

Reactive exchanges



7.5k per year **38k** in AMP8

- · Fix on fail
- Mixture of Households and Businesses
- Exchanges, chamber repairs, lid replacements etc

Household Enhanced Metering



127k per year **635k** in AMP8

- Pro-active street by street installations.
- Mixture of exchanges (217k) and new installations (418k)
- New installations will be external digs in the footpath

Non House Hold (NHH) Exchanges



34k per year **171k** in AMP8

- Majority of businesses already have a meter
- Varying sizes and locations
- Appointments needed to limit impact on businesses

A Strong Partnership is going to be critical for our success

We are procuring <u>one</u> strategic partner to provide:

Meter Asset

The water meter device plus any associated comms hub, fixtures and fittings

Comms Network

An AMI network to be used to share consumption data into UU architecture

Installation Services

A labour force to install the meters, survey, oversee traffic management, permits and reinstatement

Asset Warranty

Failure provision for meter assets and any associated parts/costs of exchange

Meter Communication Options



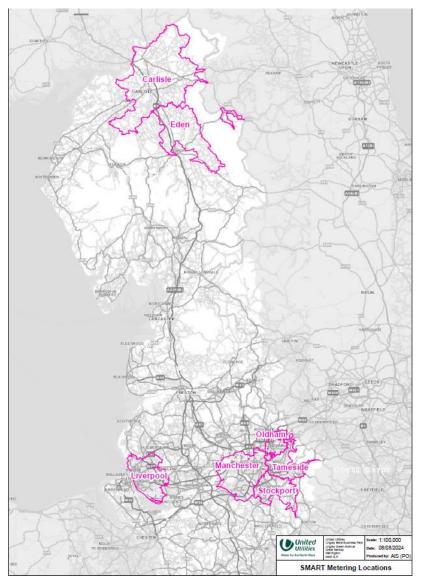
A combination of comms technologies will provide Smart coverage across the North West (TBC following contract award)



Closed Network



AMP8 Deployment Planning – Proactive Installations



HH Proactive Installs	Meter Deployment Timeline	Vol HH in DMZ	Vol of Unmetred	avø	Volume of Predicted Eligible
Carlisle	April - December 2025	51,996	28,916	2,366	26,024
Eden	June-August 2025	5,768	3,318	747	2,986
Manchester	Sep 2025 - February 2030	404,900	199,535	5,986	179,582
Tameside	Aug 2025 - July 2027	126,501	. 77,412	2,488	69,671
Stockport	Sep 2027 - Sep 2028	135,222	64,067	2,883	57,660
Oldham	Oct 2028 - Jan 2030	86,112	55,219	2,071	49,697
Liverpool	April - 2029 - ongoing	327,238	167,809	5,809	151,028

Proactive Metering - AMP 8												
HH by Area	Yr 1 H1	Yr 1 H2	Yr 2 H1	Yr 2 H2	Yr 3 H1	Yr 3 H2	Yr 4 H1	Yr 4 H2	Yr 5 H1	Yr5 H2		
Carlisle	Х	X										
Eden	X											
Manchester	Х	Х	Х	Х	Х	X	Х	Х	Х	Х		
Tameside	Х	Х	Х	Х	Х							
Stockport					Х	Х	Х					
Oldham								Х	Х	Х		
Liverpool									Х	X		

SLP/Developer Impact for procurement & installation

Existing

SLP procures directly from Diehl on UU framework



Lloyds Registered/Accredited SLP Installs meter & field reports **all** details



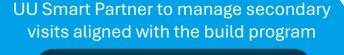
Possible options



SLP procures directly from Smart Partner



Lloyds Registered/Accredited
SLP
Installs meter & field reports all



Y

SLP procures directly from Smart Partner



Lloyds Registered/Accredited SLP Installs meter & field reports **all**



UU Smart Partner installs/commissions Smart Technology



SLP procures directly from Smart Partner



Lloyds Registered/Accredited
SLP
Installs meter & field reports all
details



UU Smart Partner installs/commissions Smart Technology